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DIVISION OF
OIL GAS & MINING

March 3, 1993

Mr. Don A. Ostler, P.E.
Director
Division of Water Quality
Utah Department of Environmental Quality
288 North 1460 West
Salt Lake City, UT 84114-4870

Mr. Ostler,

Subject: Performance Characteristics of Amended and Native
Long Trail Clay

This letter follows up on my correspondence to you dated February 18, 1993. It concerns the request to use native Long Trail clay as the primary hydraulic member in the Reservation Canyon Tailing Impoundment liner. Use of the native clay will assure compliance with the permit specification of less than 1×10^{-7} cm/s permeability.

The accompanying report (titled as above) details the performance of both native and amended Long Trail clay liners.

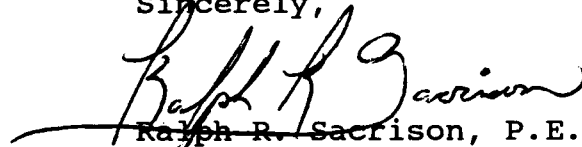
The amending process did not significantly lower the permeability of the liner. It did complicate construction. In the future those complications may adversely affect the timely and reliable installation of liner on impoundment slopes.

Two copies of the performance report accompany this letter. Please consider them as supporting documents to the 1993 liner specifications. Your timely review of this material will be appreciated.

Mr. D. A. Ostler
March 3, 1993
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Please contact me should you or your staff have any questions.

Sincerely,


Ralph R. Sacrison, P.E.
Construction Engineer

RRS:ms

Enc. (2)

cc w/enc:

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